

WHAT IS CLAIMED IS:

1. A package comprising a seal of a first outer film layer to a second outer film layer, the first outer film layer comprising a composition comprising:

5 (A) a first component comprising at least one member selected from the group consisting of polyethylene homopolymer, and ethylene/alpha-olefin copolymer; and

(B) a second component comprising at least one member selected from the group consisting of elastomer, plastomer, and
10 carboxyl-modified polyethylene; and

wherein the second outer film layer comprises at least one member selected from the group consisting of ionomer, ethylene/acid copolymer, ethylene/vinyl acetate copolymer and ethylene/acrylate copolymer.

15 2. The package according to claim 1, wherein the first component comprises a first ethylene/alpha-olefin copolymer having a first Vicat softening point, and the second component comprises a second ethylene/alpha-olefin copolymer plastomer having a second
20 Vicat softening point, wherein a difference between the first Vicat softening point and the second Vicat softening point is from about 1°C to 100°C.

25 3. The package according to claim 2, wherein the difference between the first Vicat softening point and the second Vicat softening point is from about 20°C to 50°C.

4. The package according to claim 3, wherein the second outer layer comprises ionomer.

30 5. The package according to claim 1, wherein the first component comprises ethylene/alpha-olefin copolymer having a density of from about 0.88 g/cc to 0.93 g/cc, and the second

component comprises at least one member selected from the group consisting of elastomer, plastomer having a density of from about 0.86 to 0.879, ionomer, and carboxyl-modified polyethylene.

5 6. The package according to claim 5, wherein the second outer layer comprises ionomer.

7. The package according to claim 5, wherein:

the first component comprises a homogeneous ethylene/alpha-
10 olefin copolymer having a density of from about 0.88 to 0.92;

the second component comprises a homogeneous ethylene/alpha-olefin copolymer plastomer having a density of from about 0.86 to 0.879; and

the second outer layer comprises ionomer.

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8. The package according to claim 7, wherein in the first component, the homogeneous ethylene/alpha-olefin copolymer has a density of from about 0.90 to 0.915.

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9. The package according to claim 1, wherein the first outer film layer is in a first multilayer film.

10. The package according to claim 9, wherein the second outer film layer is in a second film.

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11. The package according to claim 10, wherein the second film is a second multilayer film.

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12. The package according to claim 5, wherein the first outer film layer has a seal initiation temperature of from about 175°F to 300°F.

13. The package according to claim 12 wherein the first outer film layer has a seal initiation temperature of from about 175°F to 200°F.

5 14. The package according to claim 5, wherein the composition in the first outer layer comprises from about 5 to 95 weight percent of the first component with from about 95 to 5 weight percent of the second component.

10 15. The package according to claim 14, wherein the composition in the first outer layer comprises from about 50 to 75 weight percent of the first component with from 50 to 25 weight percent of the second component.

15 16. A package comprising a seal of a first outer film layer to a second outer film layer, the first outer film layer comprising a composition comprising:

(A) a first component comprising at least one member selected from the group consisting of ethylene vinyl acetate copolymer, and ethylene/acrylate copolymer; and

20 (B) a second component comprising at least one member selected from the group consisting of elastomer, plastomer, carboxyl-modified polyethylene; and

the second outer film layer comprising at least one member selected from the group consisting of ionomer, ethylene/acid copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer.

25 17. The package according to claim 16, wherein the first outer film layer comprises an ethylene/vinyl acetate copolymer having a vinyl acetate content of from about 1 percent to 26 percent.

30 18. The package according to claim 17, wherein the composition in the first outer layer comprises from about 20 to 70 weight

percent of the first component with from about 80 to 30 weight percent of the second component.

19. A package comprising a seal of a region of a first outer film layer to a region of a second outer film layer, wherein each of the outer film layers comprises a composition comprising:

- (A) a first component comprising at least one member selected from the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer; and
- (B) a second component comprising at least one member selected from the group consisting of elastomer, plastomer, and carboxyl-modified polyethylene.

20. The package according to claim 19, wherein the first component comprises a first ethylene/alpha-olefin copolymer having a first Vicat softening point, and the second component comprises a second ethylene/alpha-olefin copolymer plastomer having a second Vicat softening point, and wherein a difference between the first Vicat softening point and the second Vicat softening point is from about 1°C to 100°C.

21. The package according to claim 20, wherein the difference between the first Vicat softening point and the second Vicat softening point is from about 20°C to 50°C.

22. The package according to claim 19, wherein the first component comprises ethylene/alpha-olefin copolymer having a density of from about 0.88 g/cc to 0.93 g/cc, and the second component comprises at least one member selected from the group consisting of elastomer, plastomer having a density of from about 0.86 to 0.879, and carboxyl-modified polyethylene.

23. The package according to claim 22, wherein:

the first component comprises a homogeneous ethylene/alpha-olefin copolymer having a density of from about 0.88 to 0.92;

the second component comprises a homogeneous ethylene/alpha-olefin copolymer plastomer having a density of from about 0.86 to 0.879; and

the second outer layer comprises ionomer.

24. The package according to claim 22, wherein the first outer film layer has a seal initiation temperature of from about 175°F to 300°F.

25. The package according to claim 24 wherein the first outer film layer has a seal initiation temperature of from about 175°F to 250°F.

26. The package according to claim 22, wherein the composition in the first outer layer comprises from about 5 to 95 weight percent of the first component with from about 95 to 5 weight percent of the second component.

27. The package according to claim 26, wherein the composition in the first outer layer comprises from about 50 to 75 weight percent of the first component with from 50 to 25 weight percent of the second component.

28. A multilayer film comprising:

an outer sealant layer comprising at least one member selected from the group consisting of ionomer, carboxyl-modified polyethylene, and ethylene/acid copolymer, the outer layer having a thickness of from about 1 percent to 20 percent, based on a total thickness of the multilayer film;

a core seal-assist layer comprising a composition comprising:

(A) a first component comprising at least one member selected from the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer; and

(B) a second component comprising at least one member selected from the group consisting of elastomer, plastomer, ionomer, and carboxyl-modified polyethylene.

29. The multilayer film according to claim 28, wherein the first component comprises a first ethylene/alpha-olefin copolymer having a first Vicat softening point, and second component comprises a second ethylene/alpha-olefin copolymer plastomer having a second Vicat softening point, wherein a difference between the first Vicat softening point and the second Vicat softening point is from about 1°C to 100°C.

30. The multilayer film according to claim 29, wherein the difference between the first Vicat softening point and the second Vicat softening point is from about 20°C to 50°C.

31. The multilayer film according to claim 28, wherein:
the first component comprises ethylene/alpha-olefin copolymer having a density of from about 0.88 g/cc to 0.93 g/cc; and
the second component comprises at least one member selected from the group consisting of elastomer, plastomer having a density of from about 0.86 to 0.879, ionomer, and carboxyl-modified polyethylene.

32. The multilayer film according to claim 31, wherein:
the first component comprises a homogeneous ethylene/alpha-olefin copolymer having a density of from about 0.88 to 0.92;
the second component comprises a homogeneous ethylene/alpha-olefin copolymer plastomer having a density of from about 0.86 to

0.879.

33. The multilayer film according to claim 28, wherein the outer sealant layer has a thickness of from about 5 to 15 percent, based on the total thickness of the multilayer film, and the core seal-assist layer has a thickness of from about 10 to 95 percent, based on the total thickness of the multilayer film.

34. The multilayer film according to claim 33, wherein the outer sealant layer has a thickness of about 7 to 10 percent, based on the total thickness of the multilayer film, and the core seal-assist layer has a thickness of about 10 to 50 percent, based on the total thickness of the multilayer film.

35. The multilayer film according to claim 34, wherein the outer sealant layer has a thickness of from about 6 to 8 percent, based on the total thickness of the multilayer film, and the core seal-assist layer has a thickness of from about 20 to 30 percent, based on the total thickness of the multilayer film.

36. The multilayer film according to claim 28, wherein the outer sealant layer has a seal initiation temperature of from about 175°F to 300°F.

37. The multilayer film according to claim 36, wherein the outer sealant layer comprises ionomer.

38. The multilayer film according to claim 28, wherein the composition in the seal-assist layer comprises from about 50 to 75 weight percent of the first component with from about 50 to 25 weight percent of the second component, based on the weight of the composition.

39. The multilayer film according to claim 28, wherein the core seal-assist layer has a seal initiation temperature of from about 175°F to 300°F.

5 40. A package comprising a seal of a first region of a first outer film layer to a second region of a second outer film layer, wherein the first outer film layer comprises a homogeneous ethylene/alpha-olefin copolymer, and the second outer film layer comprises at least one member selected from the group consisting of
10 ionomer, ethylene/acid copolymer, carboxyl-modified polyethylene, wherein the seal has a strength of at least 2 lb/in.

15 41. The package according to claim 40, wherein the homogeneous ethylene alpha-olefin copolymer has a density of from about 0.86 to 0.93.

20 42. The package according to claim 40, wherein the homogeneous ethylene alpha-olefin copolymer has a density of from about 0.86 to 0.91.

25 43. The package according to claim 40, wherein the homogeneous ethylene alpha-olefin copolymer has a density of from about 0.86 to 0.905.

30 44. The package according to claim 40, wherein the seal has a strength of from about 2 to 10 lb/in.

 45. The package according to claim 44, wherein the seal has a strength of from about 3 to 10 lb/in.

 46. A film comprising a composition comprising an outer layer comprising:
 a first component comprising at least one member selected from

the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer; and

5 a second component comprising at least one member selected from the group consisting of elastomer, plastomer, and carboxyl-modified polyethylene.

47. The film according to claim 46, wherein the film is a monolayer film.

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48. The film according to claim 46, wherein the film is a multilayer film, and the composition is in a first layer, the first layer being an outer sealant layer, the film further comprising:

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a second layer, the second layer being an oxygen-barrier layer;

a third layer, the third layer being a tie layer between the second layer and the first layer;

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a fourth layer, the third layer being a thermoforming, abuse, and ultraviolet-protection layer between the second layer and the third layer;

a fifth layer, the fifth layer being a thermoforming, abuse, and heat-resistant outer layer;

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a sixth layer, the sixth layer being a thermoforming, abuse, and ultraviolet-protection layer between the fifth layer and the second layer;

a seventh layer, the seventh layer being a tie layer between the fifth layer and the sixth layer.

49. A multilayer film comprising:

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a first layer, the first layer being an outer sealant layer, the outer sealant layer comprising a first composition, the first composition comprising:

(A) a first component comprising at least one member selected

from the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer; and

(B) a second component comprising at least one member selected from the group consisting of elastomer, plastomer, and carboxyl-modified polyethylene; and

a second layer, the second layer comprising a second composition, the second composition comprising:

(C) a third component comprising at least one member selected from the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer; and

(D) a fourth component comprising at least one member selected from the group consisting of elastomer, plastomer, ionomer, and carboxyl-modified polyethylene;

wherein the first composition is different from the second composition.

50. The multilayer film according to claim 49, further comprising a third layer, the third layer being an outer bulk layer, the third layer comprising at least one member selected from the group consisting of low density polyethylene, linear low density polyethylene, polypropylene copolymer, and ethylene/vinyl acetate copolymer, the second layer being between the first layer and the third layer.

51. The multilayer film according to claim 50, wherein the third layer comprises a third composition, the third composition comprising low density polyethylene and linear low density polyethylene.

52. The multilayer film according to claim 49, wherein the multilayer film further comprises:

a third layer, the third layer being an O₂ barrier layer, the second layer being between the first layer and the third layer;

a fourth layer, the fourth layer being a thermoforming and abuse layer, the fourth layer being between the second layer and the third layer;

a fifth layer, the fifth layer being a thermoforming and abuse layer;

a sixth layer, the sixth layer being a tie layer, the sixth layer being between the second layer and the fourth layer;

a seventh layer, the seventh layer being an outer layer and being a heat-resistant and thermoforming layer, the fifth layer being between the third layer and the seventh layer;

an eighth layer, the eighth layer being a tie layer, the eighth layer being between the fifth layer and the seventh layer; and

an ninth layer, the ninth layer being a thermoforming and abuse layer, the ninth layer being between the seventh layer and the eighth layer.

53. A multilayer film, comprising:

(A) a first layer, the first layer being a seal-assist layer, the seal-assist layer comprising a first composition, the first composition comprising:

(i) a first component comprising at least one member selected from the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer, ethylene/vinyl acetate copolymer, and ethylene/acrylate copolymer; and

(ii) a second component comprising at least one member selected from the group consisting of elastomer, plastomer, ionomer, and carboxyl-modified polyethylene; and

(B) a second layer, the second layer being an outer sealant

layer, the outer sealant layer comprising at least one member selected from the group consisting of ionomer, ethylene/acid copolymer, and carboxyl-modified polyethylene.

5 54. The multilayer film according to claim 53, further comprising third layer, the third layer being an outer layer and a bulk layer, the third layer comprising a second composition, the second composition comprising at least one member selected from the consisting of low density polyethylene, linear low density
10 polyethylene, polypropylene copolymer, and ethylene/vinyl acetate copolymer, wherein the first layer is between the second layer and the third layer.

15 55. The multilayer film according to claim 54, wherein the second composition comprises low density polyethylene and linear low density polyethylene.

 56. The multilayer film according to claim 53, further comprising:
20 a third layer, the third layer being an outer layer as well as a thermoforming and heat-resistant layer; and
 a fourth layer, the fourth layer being a tie layer, the fourth layer being between the first layer and the third layer.

25 57. The multilayer film according to claim 53, further comprising:
 a third layer, the third layer being an O₂ barrier layer, the first layer being between the second layer and the third layer;
 a fourth layer, the fourth layer being a tie layer, the fourth
30 layer being between the first layer and the third layer;
 a fifth layer, the fifth layer being an thermoforming and abuse layer, the fifth layer being between the third layer and the fourth layer;

a sixth layer, the sixth layer being a thermoforming and abuse layer, the third layer being between the fifth layer and the sixth layer;

5 a seventh layer, the seventh layer being an outer layer as well as a heat-resistant and thermoforming layer, the sixth layer being between the third layer and the seventh layer;

an eighth layer, the eighth layer being a tie layer, the eighth layer being between the sixth layer and the seventh layer; and

10 a ninth layer, the ninth layer being a thermoforming and abuse layer, the ninth layer being between the seventh layer and the eighth layer.

15 58. The multilayer film according to claim 53, further comprising:

a third layer, the third layer being an O₂ barrier layer, the first layer being between the second layer and the third layer;

20 a fourth layer, the fourth layer being an outer layer as well as a thermoforming, abuse, and heat-resistant layer, the third layer being between the first layer and the fourth layer;

a fifth layer, the fifth layer being a thermoforming, abuse, and ultraviolet-protection layer, the fifth layer being between the first layer and the third layer;

25 a sixth layer, the sixth layer being a thermoforming, abuse, and ultraviolet-protection layer, the sixth layer being between the third layer and the fourth layer;

a seventh layer, the seventh layer being a tie layer, the seventh layer being between the first layer and the fifth layer; and

30 an eighth layer, the eighth layer being a tie layer, the eighth layer being between the fourth layer and the sixth layer.

59. The multilayer film according to claim 53, further comprising:

a third layer, the third layer being a tie layer, the first layer being between the second layer and the third layer;

5 a fourth layer, the fourth layer being an outer layer as well as a thermoforming, abuse, and heat-resistant layer, the third layer being between the first layer and the fourth layer;

10 a fifth layer, the fifth layer being a thermoforming, abuse, and ultraviolet-protection layer, the fifth layer being between the first layer and the third layer;

a sixth layer, the sixth layer being a thermoforming, abuse, and ultraviolet-protection layer, the sixth layer being between the third layer and the fourth layer;

15 a seventh layer, the seventh layer being a tie layer, the seventh layer being between the first layer and the fifth layer; and

an eighth layer, the eighth layer being a tie layer, the eighth layer being between the fourth layer and the sixth layer.

20 60. A multilayer film, comprising:

a first layer, the first layer being an outer sealant layer as well as a food-contact layer, the first layer comprising at least one member selected from the group consisting of ionomer, ethylene/acid copolymer, and carboxyl-modified polyethylene;

25 a second layer, the second layer being an outer layer as well as being a non-food-contact layer;

30 a third layer, the third layer being a seal-assist layer, the third layer being between the first layer and the second layer, the third layer comprising a first composition, the first composition comprising:

- (i) a first component comprising at least one member selected from the group consisting of polyethylene homopolymer, ethylene/alpha-olefin copolymer,

ethylene/vinyl acetate copolymer, and
ethylene/acrylate copolymer; and

- (ii) a second component comprising at least one member
selected from the group consisting of elastomer,
5 plastomer, ionomer, and carboxyl-modified
polyethylene;

a fourth layer, the fourth layer being a memory layer, the
fourth layer being between the second layer and the third layer;

10 a fifth layer, the fifth layer being a tie layer, the fifth
layer being between the third layer and the fourth layer; and

a sixth layer, the sixth layer being a tie layer, the sixth
layer being between the second layer and the fourth layer.